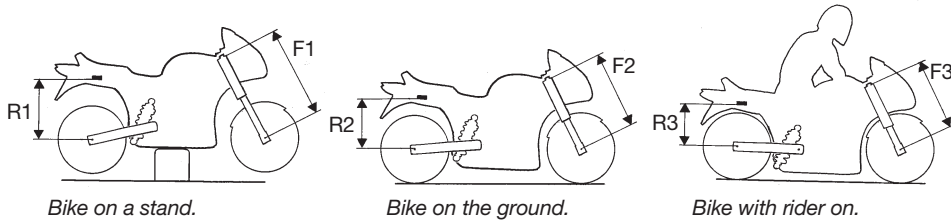


Owners Manual

Mounting instructions Öhlins shock absorber kit BM 205 for BMW R 1100 S



Setup data

| | |
|--------------------------|-----------|
| Shock absorber length | 313 mm |
| Shock absorber stroke | 48 mm |
| Spring preload | 16 mm |
| Rebound damping adjuster | 18 clicks |
| Compression damping adj. | 12 clicks |

Checking sag and ride height

Front suspension

F1. Bike on a stand with the suspension fully extended =

F2. Bike on the ground without rider =

F3. Bike on the ground with rider =

Free sag F1 - F2 =

Ride height F1 - F3 =

Rear suspension

R1. Bike on a stand with the suspension fully extended =

R2. Bike on the ground without rider =

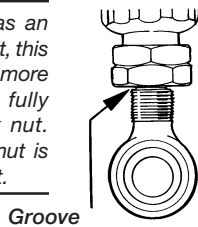
R3. Bike on the ground with rider =

Free sag R1 - R2 =

Ride height R1 - R3 =

WARNING!

If the shock absorber has an adjustable end eye/bracket, this must not be treaded out more than that one groove is fully visible beneath the lock nut. Make sure that the lock nut is tightened after adjustment.



Öhlins shock absorber 46 PRCLS

Your Öhlins shock absorber type 46 PRCLS features the following adjusters:

Compression damping adjuster

Adjustments are made on top of the reservoir.

Rebound damping adjuster

Adjuster wheel on the piston shaft above the end bracket.

Spring preload adjuster

Adjustments are made by turning the knob on the hydraulic adjuster. Clockwise for harder adjustment, counter clockwise too release the preload.

Length adjuster

Adjustment is made by turning the end eye and tightening with the lock nut.

NOTE!

When delivered the Öhlins shock absorber is dialed to recommended settings for the specific brand and make of the motorcycle. If you have changed the setting check like this:

The adjusters have a normal right hand thread. Turn the damping adjusters clockwise to fully closed (pos. zero [0]). Turn counter clockwise to open and count the clicks until you reach the recommended number of clicks. See Setup data at last page.

CAUTION!

Do not use too much force, delicate sealing surfaces can be damaged.



Öhlins Racing AB, Box 722, S-194 27 Upplands Väsby, Sweden.
Phone +46 8 590 025 00. Fax +46 8 590 025 80.
www.ohlins.com

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Safety signals

Important information concerning safety is distinguished in this manual by the following notations:



The Safety alert symbol means:
Caution! Your safety is involved.

⚠ WARNING!

Failure to follow warning instructions could result in **severe or fatal injury** to anyone working with, inspecting or using the suspension, or to bystanders.

CAUTION!

Caution indicates that special precautions must be taken to avoid damage to the suspension.

NOTE!

This indicates information that is of importance with regard to procedures.

Before installation

Öhlins Racing AB can not be held responsible for any damage whatsoever to shock absorber or vehicle, or injury to persons, if the instructions for fitting and maintenance are not followed exactly.

Similarly, the warranty will become null and void if the instructions are not adhered to.

⚠ WARNING!

1. Installing a shock absorber, that is not approved by the vehicle manufacturer, may affect the stability of your vehicle. Öhlins Racing AB cannot be held responsible for any personal injury or damage whatsoever that may occur after fitting the shock absorber. Contact an Öhlins dealer or other qualified person for advice.

2. Please study and make certain that you fully understand all the mounting instructions and the owners manuals before handling this shock absorber kit. If you have any questions regarding proper installation procedures, contact an Öhlins dealer or other qualified person.

3. The vehicle service manual must be referred to when installing the Öhlins shock absorber

Öhlins products are subject to continual improvement and development. Consequently, although these instructions include the most up-to-date information available at the time of printing, there may be minor differences between your suspension and this manual. Please consult your Öhlins dealer if you have any questions with regard to the contents of the manual.

NOTE!

During storage and transportation, especially at high ambient temperature, the oil and grease used for assembling may run out inside the packing and damage the expanded polystyrene packing material. This is not unusual and is in no way detrimental to the shock absorber.

Kit contents

Before installing the shock absorber, please check the contents of the kit. If anything is missing, contact your Öhlins dealer.

| Description | Pcs. | Part No. |
|-------------------------|------|----------|
| Shock absorber 46 PRCLS | 1 | BM 205 |
| Tie-rop | 2 | 00231-01 |
| Bolt M8x35 | 1 | 01046-11 |
| Bolt M10x70 | 1 | 00439-09 |
| NutM8 | 1 | 00430-05 |
| Sticker memo notes | 1 | 01180-01 |
| Sticker Öhlins | 2 | 00192-01 |
| Owners manual | 1 | |

Mounting instructions

1

Put the motorcycle on a stand so the rear wheel is clear of the ground. Make sure it's steadily fixed so it will not fall over.

⚠ WARNING!

1. It's advisable to have an Öhlins dealer or other qualified person to fit your shock absorber.
2. Instructions in the vehicle service manual are to be followed when changing the shock absorber.
3. When working on a lifted vehicle it must be securely supported to prevent it from falling.

2

Loosen the lower bracket of the shock absorbers and then the upper bracket.

3

Remove the shock absorber by lifting it out to the left.

4

Fit the Öhlins shock absorber from the left. Fasten the upper and then the lower bracket. Use the provided bolt (M10x1.25x70) to the lower bracket.

NOTE!

Make sure that all bolts are tightened to the correct torque and that nothing fouls or restricts movement of the shock absorber when the suspension is being fully compressed or extended.

5

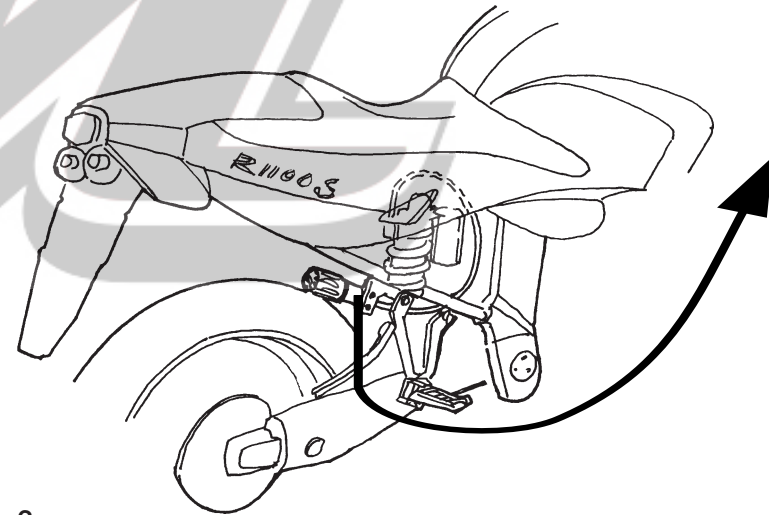
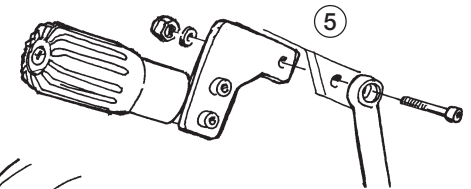
Attach the Öhlins hydraulic preloader to the foot rest bracket with the provided bolt and nut. Position the hose as shown in picture.

6

Fix the hose with the tie raps provided.

7

Continue your work according to the Owner's Manual, section adjustments.



CAUTION!

Make sure that nothing touches or restrains the rear wheel when the shock absorber is adjusted in length.

⚠ WARNING!

Certain modifications are necessary to install the Öhlins shock absorber. It is vital that the mounting instructions are carefully followed.